BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Development and improvements to roads and drains in Main Road and Cross Roads in Ward No. 11 Kuvempungara, Vidyaranyapura Sub division.

Estimate Cost Rs. 5000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.2 : Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead and lead of 10000 meters complete as per specifications. lime/cement concrete, I.by manual means B. cement concrete grade M-15 & M-20. **No. 136 / Item No. 18.18 / PWD SR 2015-16**	Cum							
	MS Palya Cross Roads		1	100.00	3.00	0.10	30.00		
			1	110.00	2.50	0.10	27.50		
			1	120.00	3.00	0.10	36.00		
			2	60.00	4.00	0.10	48.00		
			1	80.00	2.80	0.10	22.40		
			1	75.00	3.80	0.10	28.50		
			1	65.00	4.50	0.10	29.25		
	Basic Rate	354.00					**221.65**	382.32	**84741.00**
	Area Weightage @8%	28.32							
	Total	**382.32**							
2	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	For Road Work Singapura Main Road		1	80.00	8.75	0.35	245.00		
							245.00	83.16	**20374.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
3	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**	Cum							
	MS Palya Cross Roads		1	100.00	3.00	0.15	45.00		
			1	110.00	2.50	0.15	41.25		
			1	120.00	3.00	0.15	54.00		
			2	60.00	4.00	0.15	72.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			1	80.00	2.80	0.15	33.60		
			1	75.00	3.80	0.15	42.75		
			1	65.00	4.50	0.15	43.88		
							332.48	5070.60	**1685848.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							
4	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	MS Palya Cross Roads		1	100.00	3.00	0.10	30.00		
			1	110.00	2.50	0.10	27.50		
			1	120.00	3.00	0.10	36.00		
			2	60.00	4.00	0.10	48.00		
			1	80.00	2.80	0.10	22.40		
			1	75.00	3.80	0.10	28.50		
			1	65.00	4.50	0.10	29.25		
							221.65	6332.04	**1403497.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
5	Vaccum De-watering with vaccum pump and suction mat and compaction with **skin floater clubbed with floating disc** including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	MS Palya Cross Roads		1	100.00	3.00		300.00		
			1	110.00	2.50		275.00		
			1	120.00	3.00		360.00		
			2	60.00	4.00		480.00		
			1	80.00	2.80		224.00		
			1	75.00	3.80		285.00		
			1	65.00	4.50		292.50		
							2216.50	97.20	**215444.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
6	Providing **groove cutting** for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator and HOM of machinery including cost of blade coolant etc including cleaning of groove and providing sand and hot bitumne fillars, and filler metal etc., indluding cost of converyance of all materials, labours, lead and lift charges and all other incidental charges as per drawing and as per specification **Concrete Pavement Page No. 175 / Item No. 22.8.1 / PWD SR 2015-16**	Rmt							
			10	3.00			30.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
			11	2.50			27.50		
			12	3.00			36.00		
			12	4.00			48.00		
			8	2.80			22.40		
			7	3.80			26.60		
			6	4.50			27.00		
							217.50	124.20	**27014.00**
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	**124.20**							
7	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
	Singapura Main Road		1	80.00	9.80	0.45	352.80		
	Basic Rate	1587.00					**352.80**	1713.96	**604685.00**
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
8	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
	Singapura Main Road		1	80.00	9.80		784.00		
	Basic Rate	26.00					**784.00**	28.08	**22015.00**
	Area Weightage @ 8%	2.08							
	Total	**28.08**							
9	KSRRB 500-11: Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead lift and cost including lead, lift and cost of all materials, labour HOM of machineries complete as per specifications **using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen, Page No. 161 / Item No. 21.11.6/ PWD SR 2015-16**	Cum							
	Singapura Main Road		1	80.00	9.80	0.050	39.20		
							39.20	5106.24	**200165.00**
	Basic Rate	4728.00							
	Area Weightage @ 8%	378.24							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**5106.24**							
10	KSRRB 500-7: Providing and applying **tack coat** using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 160 / Item No. 21.7 / PWD SR 2015-16**	Sqm							
	Singapura Main Road		1	80.00	9.80		784.00		
							784.00	11.88	**9314.00**
	asper Revised Basic Rate	11.00							
	Area Weightage @ 8%	0.88							
	Total	**11.88**							
11	KSRRB M500-19: Providing and laying **bituminous concrete** 40mm thick with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 500.9 complete In all respects as per specifications. MORTH Specificationon NO. 509, **using 40/60 TPH capacity with Mechanical Paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen, Page No. 164 / Item No. 21.22.6/ PWD SR 2015-16**	Cum							
	Singapura Main Road		1	80.00	9.80	0.040	31.36		
							31.36	7699.32	**241451.00**
	Basic Rate	7129.00							
	Area Weightage @ 8%	570.32							
	Total	**7699.32**							
12	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface-providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, **Page No. 181 / Item No. 24.15 PWD SR 2015-16**	Sqm							
	Singapura Main Road		2.5	110.00	0.10		27.50		
							27.50	473.04	**13009.00**
	Basic Rate	438.00							
	Area Weightage @ 8%	35.04							
	Total	**473.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
13	ad for Disposal of Debris shall be payable at rage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km** (PWD SR Rates P No 139)	Cum	851.07				537.54	109.63	58931 55203
			Qty. Vide Item No. 1+2				503.54	106.34	53545.00
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46 33.51	(192.4+440) = 632.4×0.85 = 537.54						
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46 101.51							
	Area Weightage @ 8%	7.88 8.12							
	Total	106.34 109.63							4586399 4582671
14	Sub Total								4585921.00
15	KRIDL Charges @ 8%							366912 = 00 366614	366874.00
16	Third Party Inspection Charges @ 1%							45864 = 00 45827	45859.00
17	Miscellaneous and unforeseen charges	L/S						825 = 00	4588 1346.00
								Total	5000000.00

(Rupees Fifty Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 16/3/16.
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical

Approval

Accorded For 5000000/-
Head of A/C P-2110
CER NO : 03 **Dt:** 05.04.2016

TA CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lacs
Rupees Fifty lacs only
Under 14th Finance
Registered
Subject
Enclosed
Dt
T.C(4) Cal 05 / 86 / 15-16
dated 19-3-2016 50.00 lacs.

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92